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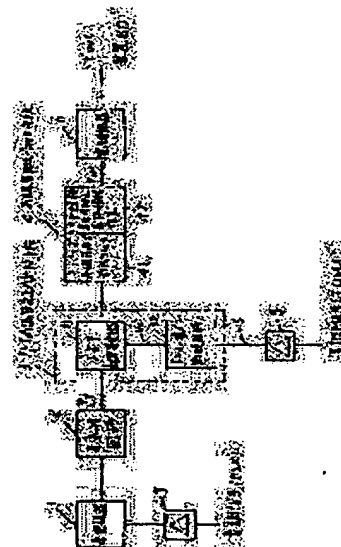
## (54) MICROWAVE BURST SIGNAL GENERATOR INCORPORATING FET FREQUENCY MULTIPLIER

### (57)Abstract:

**PURPOSE:** To reduce the cost of the titled generator by constituting a burst signal generator by a FET harmonic generator generating harmonics from an output of an original oscillator, a means intermitting the generation of the harmonics and an extracting/suppressing means extracting a desired harmonic among the outputs and suppressing the fundamental wave.

**CONSTITUTION:** A modulation signal from a buffer amplifier 7 is given to the original oscillator generating a fundamental wave signal, a fundamental wave circuit 2 is subjected to impedance matching to the fundamental wave signal and its output is outputted as a burst signal via a FET harmonic generation/ intermittent means 3, the harmonic extracting/suppressing means 4 and a power amplifier 6 as a burst signal. Through the constitution above, the means 3 consists of a FET harmonic generator 31 and a drain voltage intermittent circuit 32 and an on/off control signal 5 is impressed to the means 3. Moreover, the means 4 consists of a harmonic extraction band pass filter 41 and a fundamental wave suppressing/case width designating device 42.

Thus, an expensive fundamental wave suppressing filter is not required and the cost is reduced.



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